

## Product datasheet for **SC320681**

### **NCF2 (NM\_000433) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NCF2 (NM_000433) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCF2
Synonyms:	NCF-2; NOXA2; P67-PHOX; P67PHOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000433.2  
TCTCTCTGCTTCTTTCTTTCTCTCTCATGGTAGGGTTATGAGTCAGTTGCCAAAAG  
GTGGGGACATTTCTGATGCATTTGCAACACTGAGAAGTTATCTTAAGGGAGGCTGGGCC  
CCATTCTACTCATCTGGCCAGAAAAGTGAACACCTTGGGGGCACTAAGGCAGCCCTGCT  
AGGGGAGACGCTCCAACCTGTCTCTCTGTCTCCTGGCAGCTCTTTGGCCTCCTAGT  
TTCTACCTAATCATGTCCCTGGTGGAGGCCATCAGCCTCTGGAATGAAGGGGTGCTGGCA  
GCGGACAAGAAGGACTGGAAGGGAGCCCTGGATGCCTTCAGTGCCGTCCAGGACCCCCAC  
TCCCGGATTTGCTTCAACATTGGCTGCATGTACACTATCCTGAAGAACATGACTGAAGCA  
GAGAAGGCCTTTACCAGAAGCATTAAACCGAGACAAGCACTTGGCAGTGGCTTACTTCCAA  
CGAGGGATGCTCTACTACCAGACAGAGAAATATGATTTGGCTATCAAAGACCTTAAAGAA  
GCCTTGATTGAGCTTCGAGGGAACAGCTGATAGACTATAAGATCCTGGGGCTCCAGTTC  
AAGCTGTTTGCCTGTGAGGTGTTATATAACATTGCTTTCATGTATGCCAAGAAGGAGGAA  
TGGAAAAAAGCTGAAGAACAGTTAGCATTGGCCACGAGCATGAAGTCTGAGCCAGACAT  
TCCAAAATCGACAAGGCATGGAGTGTGTCTGGAAGCAGAAGCTATATGAGCCAGTGGTG  
ATCCCTGTGGCAGGCTGTTTCGACCAAATGAGAGACAAGTGGCTCAGCTGGCCAAGAAG  
GATTACCTAGGCAAGGCAACGGTCGTGGCATCTGTGGTGGATCAAGACAGTTTCTCTGGG  
TTTGCCCTCTGCAACCACAGGCAGCTGAGCCTCCACCCAGACCGAAAACCCAGAGATC  
TTCAGGGCTCTGGAAGGGGAGGCTCACCGTGTGCTATTTGGGTTTGTGCCTGAGACAAAA  
GAAGAGCTCCAGGTATGCCAGGGAACATTGTCTTTGTCTTGAAGAAGGGCAATGATAAC  
TGGGCCACGGTATGTTCAACGGGCAGAAAGGGCTTGTCCCTGCAACTACCTTGAACCA  
GTTGAGCTGCGGATCCACCCTCAGCAGCAGCCCCAGGAGGAAAGCTCTCCGCAGTCCGAC  
ATCCCAGCTCCTCTAGTTCAAAAGCCCTGGAAGACCCAGCTGTCACCAGGCCAGAAA  
CAAAAAGAAGAGCCTAAGGAAGTGAAGCTCAGTGTTCATGCCCTACACACTCAAGGTG  
CACTACAAGTACACGGTAGTCATGAAGACTCAGCCCGGGCTCCCTACAGCCAGGTCCGG  
GACATGGTGTCTAAGAACTGGAGCTCCGGCTGGAACAACTAAGCTGAGCTATCGGCCT  
CGGGACAGCAATGAGCTGGTGCCTTTTCAAGACAGCATGAAGGATGCCTGGGGCCAG  
GTGAAAAACTACTGCCTGACTCTGTGGTGTGAGAACACAGTGGGTGACCAAGGCTTTCCA  
GATGAACCAAGGAAAGTAAAAAGCTGATGCTAATAACCAGACAACAGAACCTCAGCTT  
AAGAAAGGCAGCAAGTGGAGGCACTCTCAGTTATGAGGCTACCAACCAGAGGACCTG  
GAGTTTCAAGAAAGGGATATAATCCTGGTGTATCAAAGTGAATGAAGAATGGCTGGAA  
GGGGAGTGCAAAGGGAAGGTGGGCATTTTCCCAAAGTTTTTGTGAAGACTGCGCAACT  
ACAGATTTGAAAAGCACTCGGAGAGAAGCTAGGATGTTTCACAACTACAAAGCTGAAG  
AAAATGAAGCCCTATTACTGTTTGTAAAGATTTAGCACCTTCTGCTGTATACTGTACTG  
AGACATTACAGTTTGAAGTGTAACTATTTATCCCTGTAAAAATTTAACCTACTAGAC  
AATGATGTGAGTACCCAGGATGATTTCTGGGGCACAGTGGGTGAGGAGATGGGGACAGG  
TGAATGGAGGAGTTAGGGGAGAGGAAAAGTGGATGGAAGTGTCTGGAAAGGGCACGAGAG  
AGTCTTCCAGGTACTGATCCTGTTTCTGCTCTGAGTGTAGCTAGCCAGCTGTGTTTAC  
ACTGTAACATTCATCAAGCTGTACATTTGGTGCACTTTTCTGTGTCATACCACAAAAA  
AAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000433

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000433.2</a> , <a href="#">NP_000424.2</a>
<b>RefSeq Size:</b>	2406 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	4688
<b>UniProt ID:</b>	<a href="#">P19878</a>
<b>Cytogenetics:</b>	1q25.3
<b>Domains:</b>	PB1, TPR, SH3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Leukocyte transendothelial migration
<b>Gene Summary:</b>	<p>This gene encodes neutrophil cytosolic factor 2, the 67-kilodalton cytosolic subunit of the multi-protein NADPH oxidase complex found in neutrophils. This oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Mutations in this gene, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease, a disease that causes recurrent infections by catalase-positive organisms. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (1) and variant 2 encode the same protein (isoform 1).</p>